TITLE
METHOD OF DISCOVERING PATTERNS IN SYMBOL SEQUENCES

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ABSTRACT OF THE INVENTION

A method of discovering one or more patterns in
two sequences of symbols S_1 and S_2 includes the
formation, for each sequence, of a master offset table

10　that groups for each symbol the position in the
sequence occupied by each occurrence of that symbol.
The difference in position between each occurrence of a
symbol in one of the sequences and each occurrence of
that same symbol in the other sequence is determined

15　and a Pattern Map is formed. For each given value of a
difference in position the Pattern Map lists the
position in the first sequence of each symbol therein
that appears in the second sequence at that difference
in position.　The collection of the symbols tabulated

20　for each value of difference in position thereby
defines a parent pattern in the first sequence that is
repeated in the second sequence.

A computer readable medium having instructions for
controlling a computer system to perform the method and

25　a computer readable medium containing a data structure
used in the practice of the method are also disclosed.